

Fig. 1

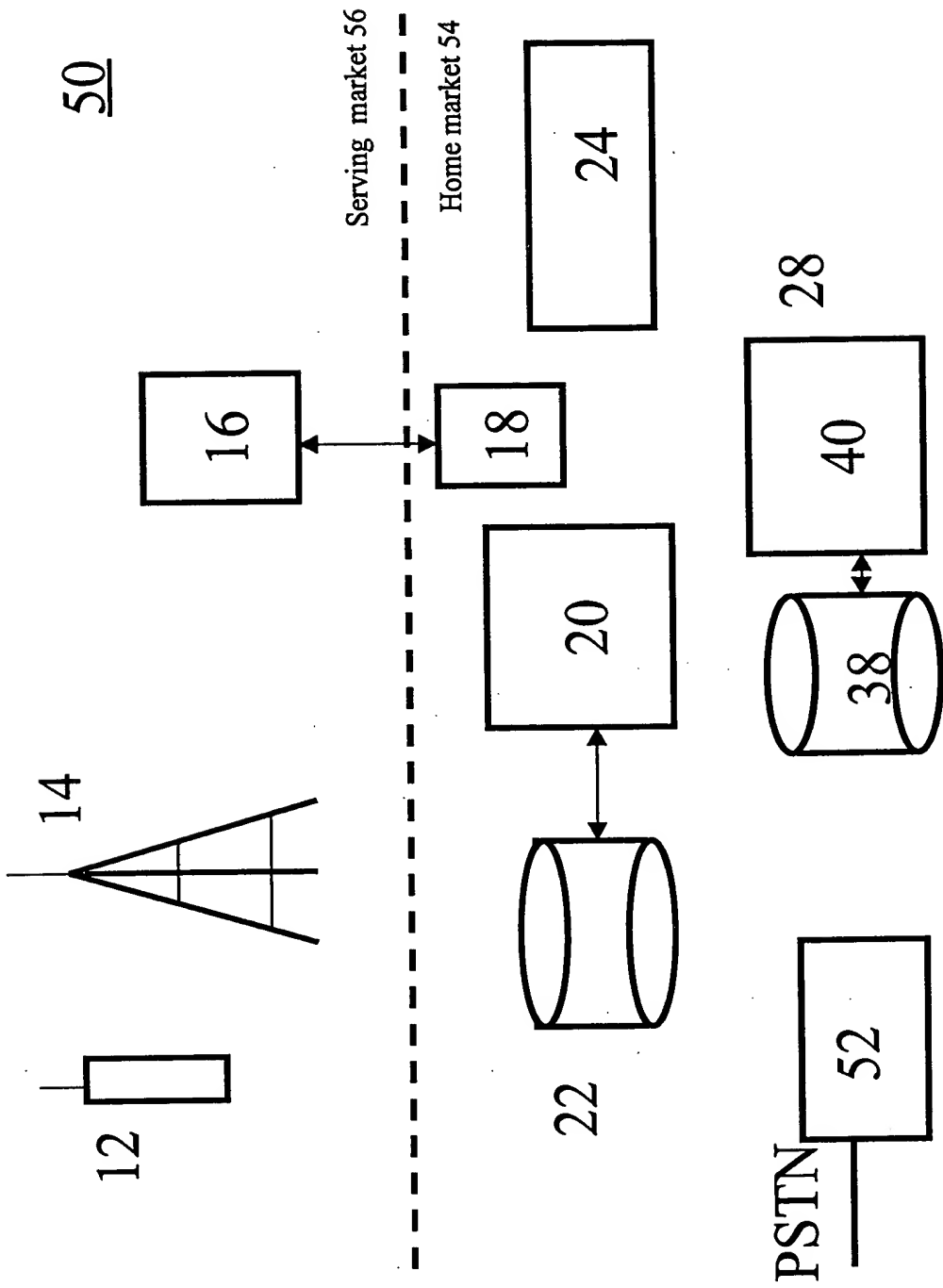
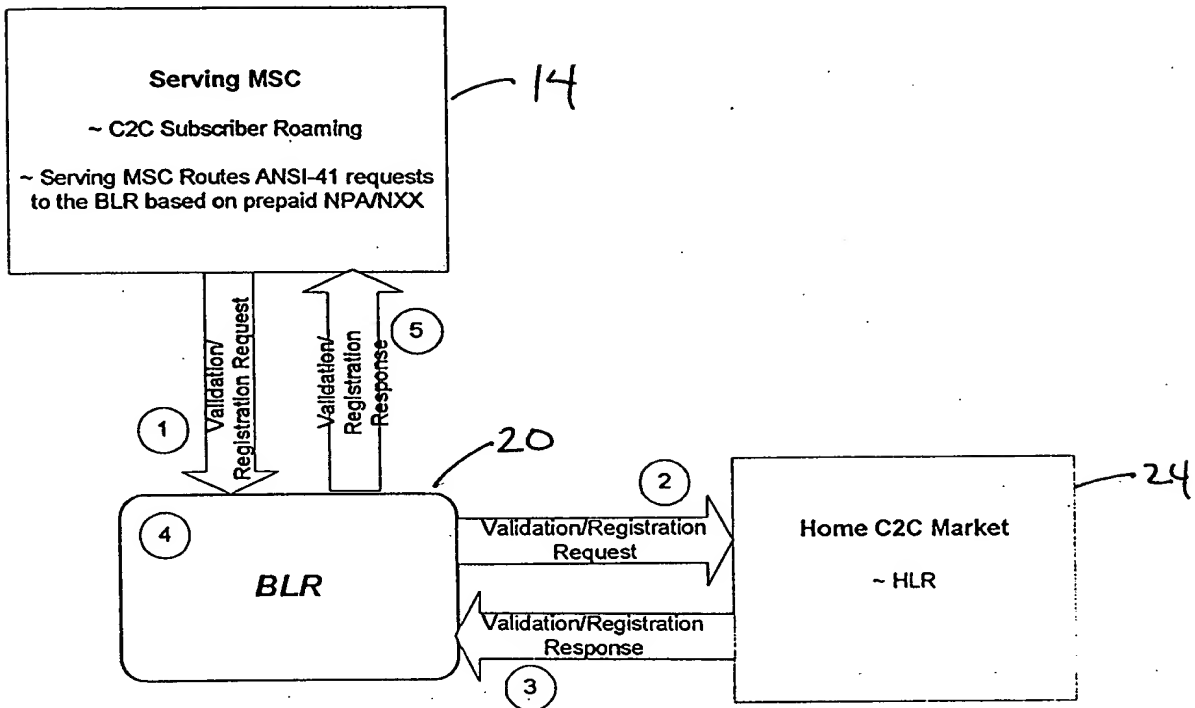


Fig. 2

Roamer Registration and Verification Model



- 1 C2C roamer requests registration in serving MSC. Serving MSC requests caller's roaming profile from BLR based on prepaid NPA/NXX.
- 2 BLR requests caller's roaming profile from the HLR.
- 3 HLR returns roamer profile and then stores the subscriber's location.
- 4 The BLR will determine the Class of Market for the serving market. If it is a Hotline Roaming market, the BLR will return "Origination via hotline# & term. denied" to the serving MSC. If it is a Seamless Roaming market, the BLR will return "Origination denied and Termination denied" to the serving MSC.
- 5 BLR returns roamer profile to serving MSC.

Fig 3

Roaming Call Origination Model (Seamless Roaming Market)

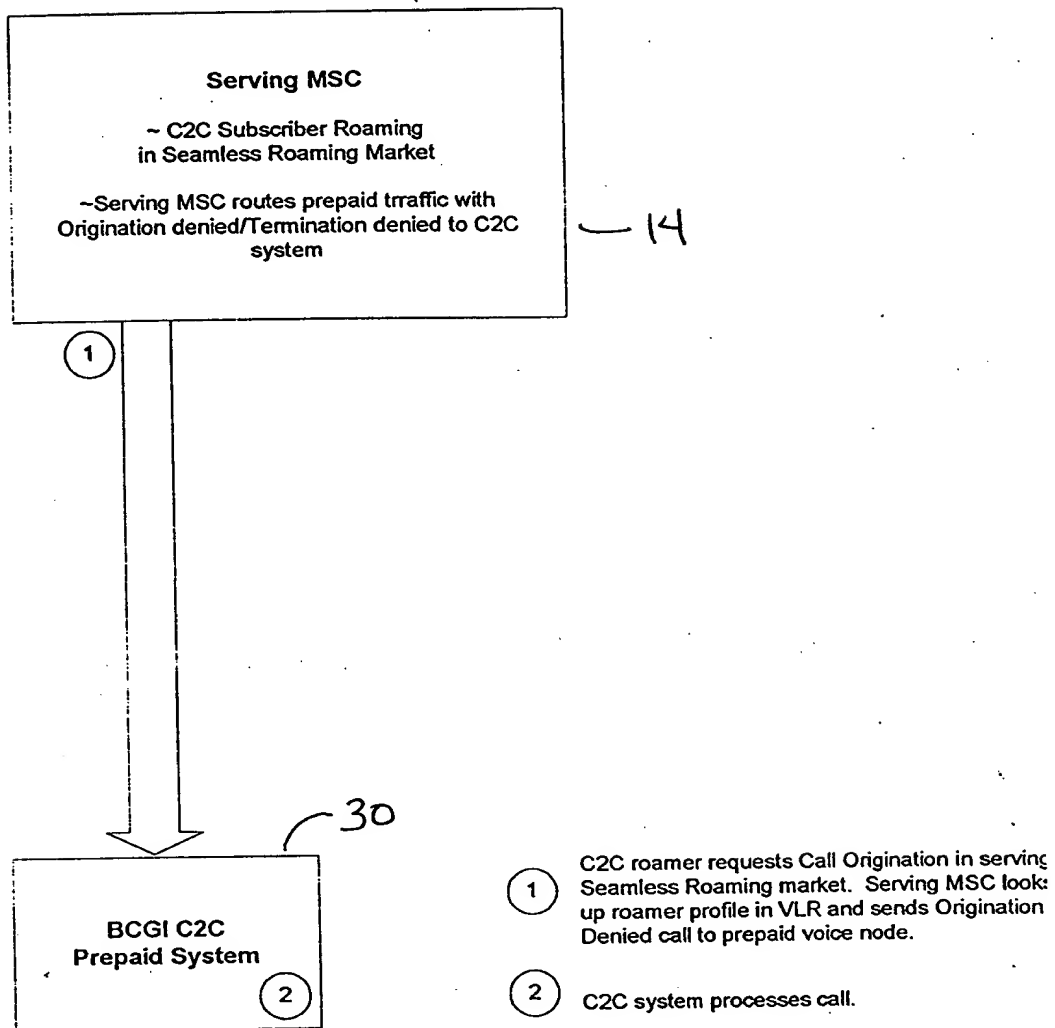


Fig 4

Roaming Call Origination Model (Hotline Roaming Market)

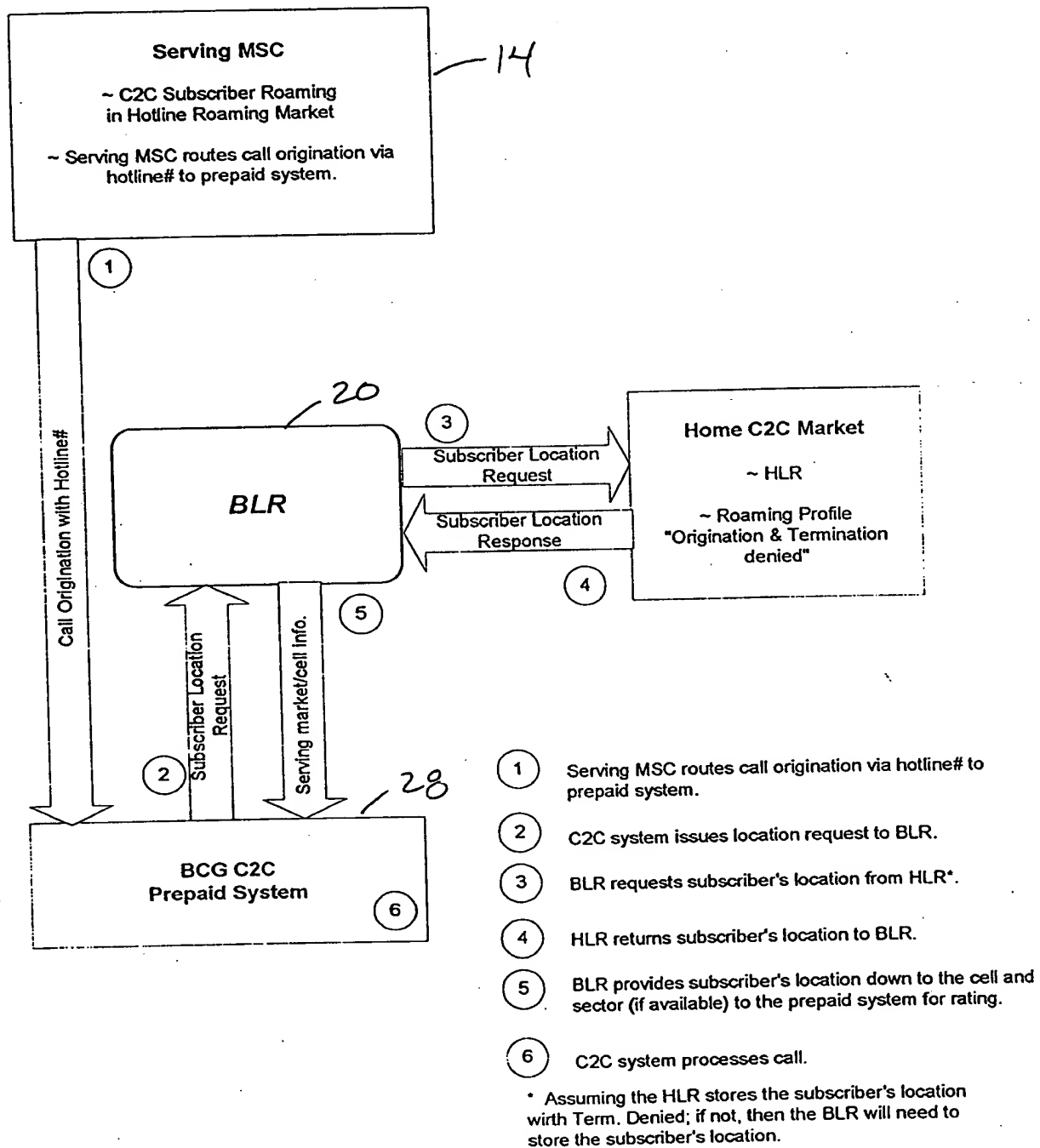
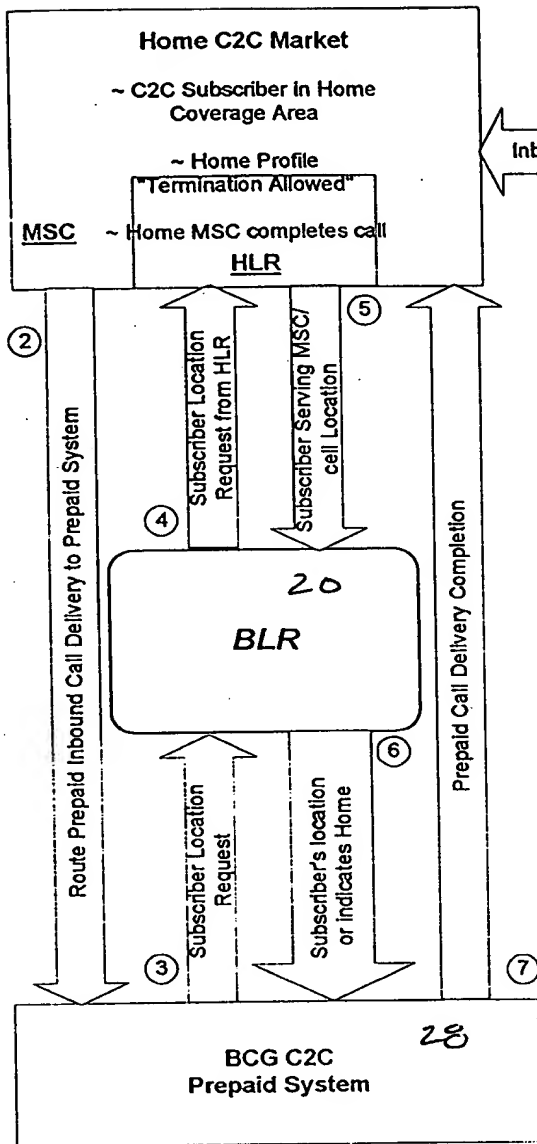


Fig 5

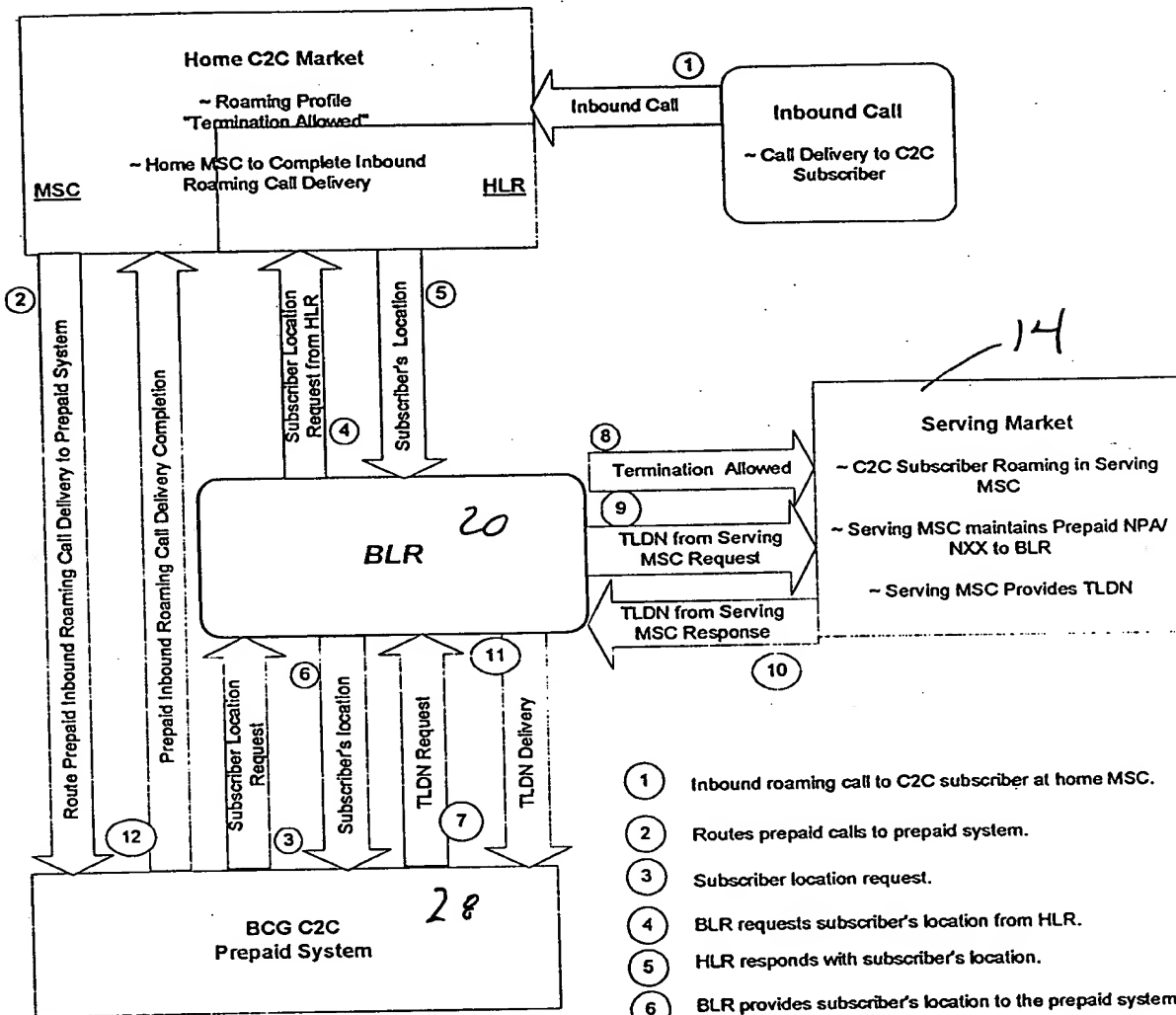


- ① Inbound call to C2C subscriber at home MSC.
- ② Routes prepaid calls to prepaid system.
- ③ Subscriber location request.
- ④ BLR requests subscriber's location from HLR.
- ⑤ HLR responds with subscriber's location.
- ⑥ BLR provides subscriber's location to the prepaid system.**
- ⑦ Home MSC completes call.

**Assumes the C2C system determines that the subscriber's location is the subscriber's home market.

Fig 6

Roaming Call Delivery Model



***Assumes C2C system determines that subscriber's location is not subscriber's home market.
 **** Assumes Term. Allowed for One Call is possible.
 ***** Assumes serving MSC will return a TLDN if Term. Denied in roamer profile.

- (1) Inbound roaming call to C2C subscriber at home MSC.
- (2) Routes prepaid calls to prepaid system.
- (3) Subscriber location request.
- (4) BLR requests subscriber's location from HLR.
- (5) HLR responds with subscriber's location.
- (6) BLR provides subscriber's location to the prepaid system.
- (7) Prepaid system requests TLDN.***
- (8) BLR sets "Termination Allowed" in roaming profile for the duration of one call.****
- (9) BLR obtains TLDN from VLR.
- (10) VLR returns TLDN to BLR.*****
- (11) BLR delivers TLDN to prepaid system.
- (12) Home MSC completes call and rates call accordingly.

Fig 7